



# **Manufacturing in Virginia**

## **SIC 38 Instruments and Related Products**



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## Overall Assessment

- In Virginia and the nation the highest percentage growth rate since 1969.
- Since 1969 has more than tripled its share of nation's instruments industry and more than quadrupled its share of Virginia's manufacturing employment.
- Has added almost 300,000 jobs nationally since 1969.

## Employment

	Virginia		U.S.	
	Employment	Rank	Employment	Rank
1953	1,800	16	413,100	14
1969	2,300	16	547,300	14
2000	11,700	14	846,600	9

Source: U.S. Department of Labor, Bureau of Labor Statistics.

## Employment Trends

### Absolute Employment Growth

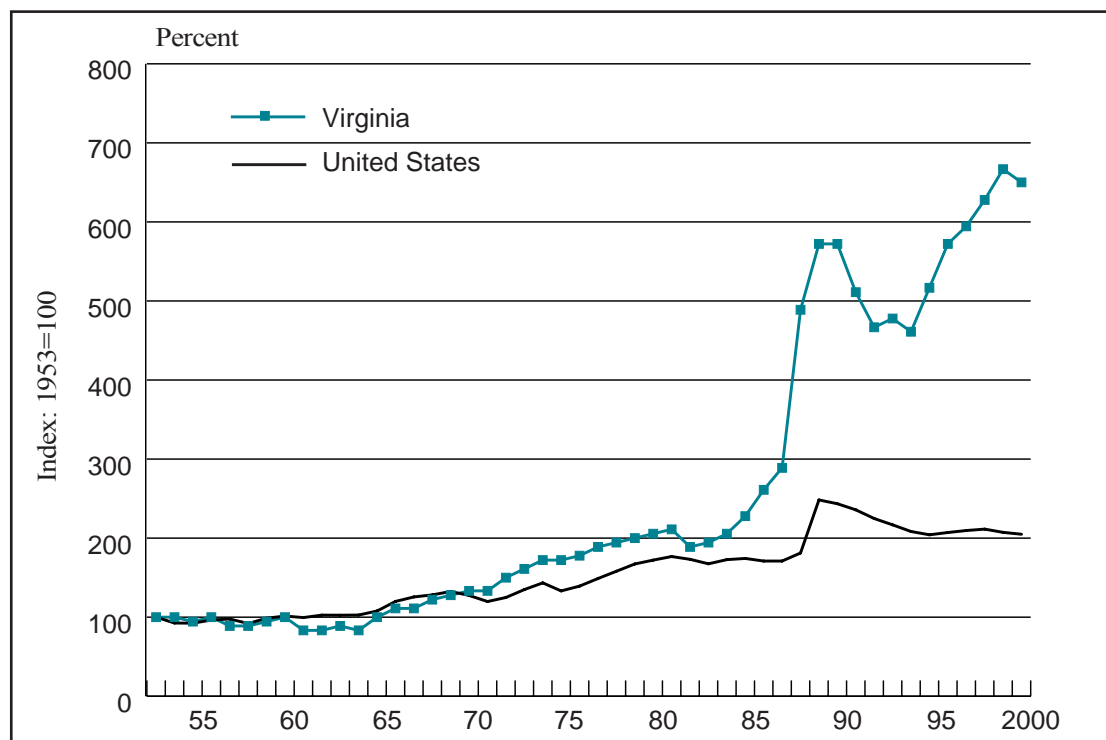
	Virginia		U.S.	
	Absolute Employment Change	Rank	Absolute Employment Change	Rank
1953-2000	+9,900	5	+433,500	2
1953-1969	+500	14	+134,200	7
1969-2000	+9,400	4	+299,300	2

Source: U.S. Department of Labor, Bureau of Labor Statistics.

### Relative Employment Growth

Virginia Annual Average Growth Rates						
	Growth Rate 1953-2000	Rank	Growth Rate 1953-69	Rank	Growth Rate 1969-2000	Rank
Instruments and Related Products						
Virginia	4.1%	2	1.5%	12	5.4%	1
U.S.	1.5%	1	1.8%	5	1.4%	1
Nonagricultural Employment	2.9%		2.9%		2.9%	
Manufacturing	0.9%		2.3%		0.2%	
Durable Goods	1.8%		3.3%		1.0%	

Source: U.S. Department of Labor, Bureau of Labor Statistics.

**Employment Change 1953-2000**

Source: U.S. Department of Labor, Bureau of Labor Statistics.

**Establishments*****Number of Establishments***

	Virginia		U.S.	
	Establishment	Rank	Establishments	Rank
Instruments and Related Products	211	10	13,971	13
Manufacturing	6,908	--	413,506	--
Instruments and Related Products as a % of Mfg.	3.1%		3.4%	

Source: U.S. Department of Labor, Bureau of Labor Statistics.

***Employment per Establishment***

	Virginia		U.S.	
	Employment	Rank	Employment	Rank
Instruments and Related Products	57	11	61	9
Manufacturing	57	--	45	--

Source: U.S. Department of Labor, Bureau of Labor Statistics.

## Payroll

### Payroll per Employee

	Virginia		U.S.	
	Payroll per Employee	Rank	Payroll per Employee	Rank
Instruments and Related Products	\$42,375	7	\$53,859	4
Manufacturing	\$35,767	--	\$41,941	--
Instruments and Related Products as a % of Mfg.	118.5%		128.4%	

Source: U.S. Department of Labor, Bureau of Labor Statistics.

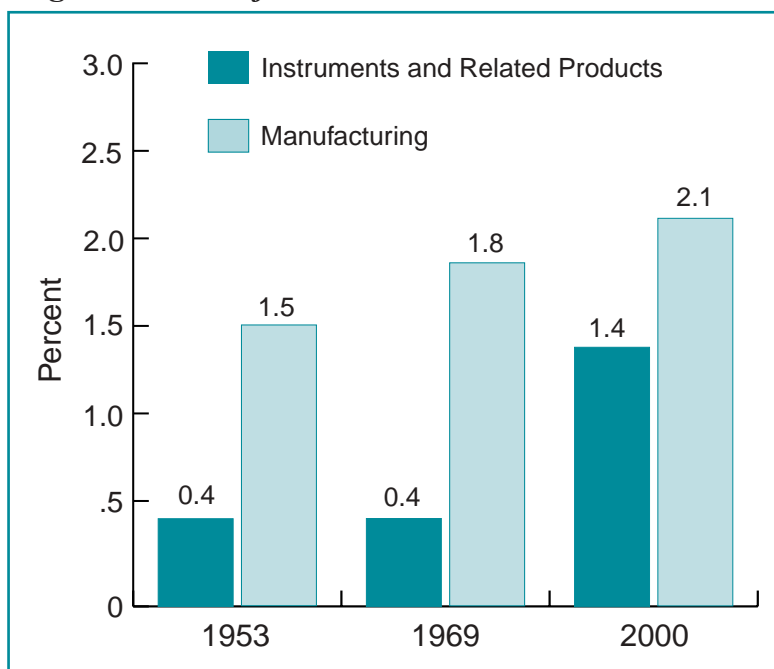
## Exports

Virginia Exports		
	Instruments and Related Products	Manufacturing
2000	\$326,150,000	\$9,395,636,000
1995	\$311,246,000	\$9,294,115,000
Export Growth, 1995-2000	4.8%	1.1%
Share of Manufactured Goods Exports, 2000	3.5%	--

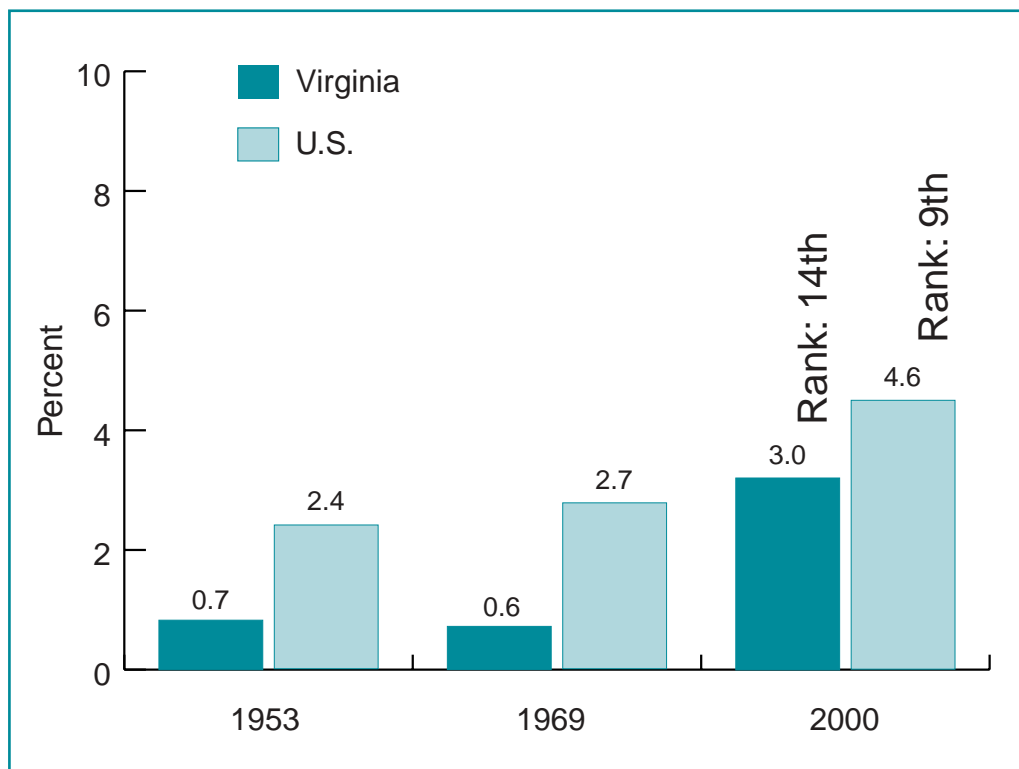
Source: U.S. Department of Commerce.

## Industry Importance

### Virginia's Share of National Instruments and Related Products Industry



Source: U.S. Department of Labor, Bureau of Labor Statistics.

**Industry's Share of Manufacturing Employment**

Source: U.S. Department of Labor, Bureau of Labor Statistics.

**Industry Trends**

***Virginia employment distribution: measuring and controlling devices (33 percent), search and navigation equipment (30 percent), medical instruments and supplies (21 percent), and ophthalmic goods (7 percent).***

- The single most important factor in the growth of the instruments industry in Virginia was the 1985 announcement of Canon's decision to locate in Newport News. Since that announcement, the instruments industry added 7,600 jobs in Virginia. In the 13 years preceding the announcement, this industry added only 1,400 jobs.
- The principal forces driving the instruments industry are investment expenditures by other industries—R&D, capital equipment, and facilities construction.
- The growth of Virginia's instruments industry reflects the State's preeminent role in both federal and private R&D.
- Nationwide the instruments industry is an important net exporter of manufactured goods. The U.S. is the largest producer of industrial and analytical instruments in the world.